

Title (en)
FLOATING GAS TRAP SYSTEM USING AGITATION

Title (de)
SCHWIMMENDES GASFALLENSYSTEM UNTER BEWEGUNG

Title (fr)
SYSTÈME FLOTTANT DE PIÈGE À GAZ PAR AGITATION

Publication
EP 3218571 A4 20181205 (EN)

Application
EP 15830419 A 20150122

Priority
• US 201414455377 A 20140808
• US 2015012545 W 20150122
• US 201361866004 P 20130814

Abstract (en)
[origin: US2015211311A1] A gas trap system for releasing gas-phase fluids is provided herein. The gas trap system is designed to reside within a return fluids tank, such as at a drill site. The gas trap system first includes a gas trap. The gas trap is configured to agitate drilling fluids in the return tank, and then to release gases during agitation. Liquids are circulated and released through a liquids exhaust port while gases are released through a gas exhaust port near the top of the gas trap. The gas trap system is configured to float along vertical guide rods in response to changes in height, weight and viscosity of the drilling fluids in the return tank. A method of capturing gaseous phase fluids from a fluid return is also provided herein. The fluid return is preferably drilling fluids at a drill site.

IPC 8 full level
E21B 21/06 (2006.01); **B01D 19/00** (2006.01); **E21B 43/00** (2006.01); **E21B 49/00** (2006.01)

CPC (source: EP US)
B01D 19/0052 (2013.01 - EP US); **E21B 21/067** (2013.01 - EP US); **E21B 49/005** (2013.01 - EP US)

Citation (search report)
• [A] US 4358298 A 19821109 - RATCLIFF ELMER G
• [A] US 2009077936 A1 20090326 - STERNER STEVEN MICHAEL [US]
• [A] US 3973930 A 19760810 - BURGESS HARRY L
• [A] CA 2798561 A1 20130221 - BARRETT COLIN [CA], et al
• [A] US 4084946 A 19780418 - BURGESS HARRY L
• [A] US 6389878 B1 20020521 - ZAMFES KONSTANDINOS S [CA]
• [A] US 4546640 A 19851015 - STONE RICHARD J [US], et al
• See references of WO 2016022169A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
US 2015211311 A1 20150730; US 9879489 B2 20180130; CA 2859388 A1 20150214; CA 2859388 C 20160119; EP 3218571 A1 20170920; EP 3218571 A4 20181205; EP 3218571 B1 20200311; US 10125557 B2 20181113; US 2018119502 A1 20180503; WO 2016022169 A1 20160211; WO 2016022169 A8 20170824

DOCDB simple family (application)
US 201414455377 A 20140808; CA 2859388 A 20140814; EP 15830419 A 20150122; US 2015012545 W 20150122; US 201715844521 A 20171216